J.S. Maps Landings

BY MARVIN MILES Times Space-Aviation

tics and Space Administration will be deciding shortly just how American biting the moon in the astronauts will be landed imain spacecraft would on the moon in the Apollo hate any way of making program and it's a good tangemergency landing to rather than in the main spacerraft itself.

In other words, it ap- necessary. pears the Apollo command module will not land, but only one man should make continue to circle the the descent, leaving two moon in low orbit with one aloft, but this would apman aboard, while a small pear extremely hazardous pressure capsule makes in view of the unknown pressuré capsule makes the descent with two astronauts.

In the basic Apollo concept, the main spacecraft is to make the landing on thrust provided by the lunar landing module. It fore, the figures have been would then become the 212 days for the cislunar launch pad (and remain on the moon) for Apollo's lifte, moon and 21/2 days for the off on the return flight to return flight. earth.

in this concept all three. astronauts would make the lunar landing.

: Would Land Two

The lunar rendezvous technique would land two astronauts in a small preslunar sure vessel for exploration. Then they would launch back into moon orbit in this module and join with the main spacecraft in a docking maneuver before heading for earth.

We carried a brief note on this from Cape Canaveral and last week Charles Frick. Apollo project manager for NASA, acknowl- spite and ridicule before edged that the space agency has been studying this possibility.

ine revision in the Applic ecordi me currenti dinned Frick said, but can be incorporated into

More Data Wesded and disadvantages in both techniques and the tradeoffs involved must be considered very carefully, bein the clearly," they point fore a decision is made. It's possible NASA may go talong both routes for a time until mora data, is.

rendezvous operation, we'd senhower — or any other like to know if the one President—have agreed to astronaut who remains orguess it will be by some rescue his teammates in sort of transfer capsule an emergency and if he could make the return flight to earth alone, if

There are some who feel only one man should make !factors involved.

Frick also told us Apollo lunar missions are being designed for 14 days, with a week "in the vicinity" of the moon. Heretotransfer, one day on the

The best book we've read in a long time is "The U-2 Affair" by two sharp newspaper-Washington men, Tom Ross of the Chicago Sun-, Times and Dave Wise of the New York Herald Tribune.

... It's a fascinating story of the spy plane and pilot Gary Powers whose capture by the Russians brecked a summit conference. But more particularly it's a story that goes behind the scenes into the high level conferences and the decisions that tangled the government into beautiful target for Soviet the world.

The authors contend the United States all but made

If the lunar rendesvous it impossible for the sum-permittee is decided upon, mit meeting to take place it will not require any man by lying when it could be satisfied in the later by have remained silent, by admitting it had fled, by Presidential disclaiming responsibility, then attention ting Presidential responsi-billty, and finally by imflying the flights would continue."

"To reverse the circumstances is to see the situaout: "If, on the eve of a summit meeting. Khrushehev had threatened to send his planes over New The National Aeronau- In the case of the lunar York or Chicago, could Eics and Space Administra- rendezvous operation, we'd senhower — or any other sit down with him?

Powers' Trial

Although much of the book is given over to Gary. Powers and his plane, the ill-timed flight on May 1. 1960, Powers' Moscow trial and the undercover arrangements for his return, the book's importance is in its consideration of questions that go far bevond these areas:

Why, for instance, was days before the summit meeting? Was it planned or coincidence?

Ross and Wise conclude the mission was directly add there is no substantial evidence of any sort of a conspiracy to scuttle the meeting.

One Last Photo

There was an uneasy feeling in intelligence circles, they explain, that an international rapprochement might be reached at . And its pilot?
Paris that would make fur- . The most publicized ther flights politically impossible for the foreseeable wire and the plane was sent despite the fact that there had been previous suspensions in the flight program during periods of international sensitivity.

months digging into the that happened, including strange and mysterious events surrounding the U-2-incident, claim that danger was inherent in the sky-spy operation from the

I. ICARD S'CHIDDE IN OLARY with traditional restands yet there is no evidence that the revolutionary implications of the operation were thought through there was a tendency de the part of both polic makers and the intelligence men to avoid plans ning for the worst . .

STAT

"There was too much reliance on the technical means of destroying the evidence and not enough awareness of the chance of human or mechanical failuré . . . There was a cover story but it did not cover. all contingencies . . .

Government Not Ready "When disaster struck, the government was not ready, even though the program had been running. for four years. As a regult, it stumbled into a series of errors . . . In retrospect, the President realized the crisis had been badly handled . . .

The long-winged U-2, developed by Lockheed's chief designer, Clarence (Kelly) Johnson, had been I the flight ordered just 15 expected to serve as a spy plane for perhaps a year. In four years of secret work it accomplished an amazing job and became] mystically important to related to the summit, but the government and, the , Central Intelligence Agen-

> lus demise as an intelligence tool, the authors say, apparently was brought about by the nearmiss explosion of a groundto-air missile at 68,000 feet.

Most Publicized Spy

ispy of the cold war. A man who flew as a vocafuture. There was a strong tion, not a dedication. But desire to get one last photithe work took courage to mission in under the even if the rewards were ample.

"When his mission failed, many jumped to the conclusion that he was a disloyal American. There was an attempt to make The authors, who spent him a scapegoat for all the mistakes of the highest officials of the government.